



COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

1	GAAGAGTTGATTGAGAAGTGCCTCTTGGTTAAGGATTAACCACAGGGAAAAATCCAGCAG	60	66
1	GAAGAGTTGATTGAGAAGTGCCTCTTGGTTAAGGATTAACCACAGGGAAAAATCCAGCAG	60	66
61	AAACAGAAGAACTGTGGGTTTCTTACCCCAGCCCTCAAGGAAGCTATGCCGTGAAAGGGG	120	126
61	AAACAGAAGAACTGTGGGTTTCTTACCCCAGCCCTCAAGGAAGCTATGCCGTGAAAGGGG	120	126
121	TACTGATACACTGACATACAGCAAGTTGGACGGGGCATCAGTTCTTCATTTGTGGAGTGG	180	186
121	TACTGATACACTGACATACAGCAAGTTGGACGGGGCATCAGTTCTTCATTTGTGGAGTGG	180	186
181	AGAAAAGAAGAGGAAATCTCTCATTGGGGCATTGAAGGATGGCTTCCCTGTTTCATCA	240	246
181	AGAAAAGAAGAGGAAATCTCTCATTGGGGCATTGAAGGATGGCTTCCCTGTTTCATCA	240	246
241	GCTTCAGATCCTGGTCTGGAAAAATTGGCTAGGTGTAAAAAGGCAGCCGCTTTGGACACT	300	306
241	GCTTCAGATCCTGGTCTGGAAAAATTGGCTAGGTGTAAAAAGGCAGCCGCTTTGGACACT	300	306
301	TGTCTTGATCTTATGGCCAGTCATTATTTTCATAATTTTGGCTATTACTCGGACCAAATT	360	366
301	TGTCTTGATCTTATGGCCAGTCATTATTTTCATAATTTTGGCTATTACTCGGACCAAATT	360	366
361	TCCTCCAAGTCAAAACCAACTTGTTACCTCGCACCTCGAAACCTTCCTAGTACTGGATT	420	426
361	TCCTCCAAGTCAAAACCAACTTGTTACCTCGCACCTCGAAACCTTCCTAGTACTGGATT	420	426
421	CTTTCCATTCTGACAGCCCTACTCTGTGACACAGACTCTAAATGCAAAGACACACCCTA	480	486
421	CTTTCCATTCTGACAGCCCTACTCTGTGACACAGACTCTAAATGCAAAGACACACCCTA	480	486
481	TGGCCCACAAGATCTGCTTCGTAGGAAAGGAATTGATGATGCACTATTTAAAGACAGTGA	540	546
481	TGGCCCACAAGATCTGCTTCGTAGGAAAGGAATTGATGATGCACTATTTAAAGACAGTGA	540	546

COMPARISON A: SEO ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

541	GATTCTGAGAAAGTCATCCAACCTGGATAAGGACAGCAGTTTATCATTCCAGAGCACCCA	600	606
541	GATTCTGAGAAAGTCATCCAACCTGGATAAGGACAGCAGTTTATCATTCCAGAGCACCCA	600	606
601	AGTTCCAGAAAGAAGGCATGCATCACTAGCCACAGTATTTCCCAGTCCAAGTTCTGATTT	660	666
601	AGTTCCAGAAAGAAGGCATGCATCACTAGCCACAGTATTTCCCAGTCCAAGTTCTGATTT	660	666
661	GGAAATCCCCGGAACATATACTTTCAATGGCAGTCAAGTGCTCGCACGAATTCTTGGCTT	720	726
661	GGAAATCCCCGGAACATATACTTTCAATGGCAGTCAAGTGCTCGCACGAATTCTTGGCTT	720	726
721	GGAAAAGCTGTTAAAGCAAATTCAACTTCAGAAGATATACGAAGAGAACTATGTGACAG	780	786
721	GGAAAAGCTGTTAAAGCAAATTCAACTTCAGAAGATATACGAAGAGAACTATGTGACAG	780	786
781	CTATTCAGGATACATTGTGGATGATGCCTTCTCTTGGACCTTTCTAGGAAGAAATGTTTT	840	846
781	CTATTCAGGATACATTGTGGATGATGCCTTCTCTTGGACCTTTCTAGGAAGAAATGTTTT	840	846
841	TAACAAATTTTGCCTTTCTAACATGACCCTTTTAGAGTCTTCTCTCCAAGAACTAAACAA	900	906
841	TAACAAATTTTGCCTTTCTAACATGACCCTTTTAGAGTCTTCTCTCCAAGAACTAAACAA	900	906
901	ACAGTTCTCCCAGCTATCCAGTGACCCCAACAATCAGAAGATAGTGTTTCAGGAAATAGT	960	966
901	ACAGTTCTCCCAGCTATCCAGTGACCCCAACAATCAGAAGATAGTGTTTCAGGAAATAGT	960	966
961	CAGAATGCTGTCTTTCTTCTCACAAGTGCAAGAGCAGAAAGCTGTGTGGCAGCTTCTGTC	1020	1026
961	CAGAATGCTGTCTTTCTTCTCACAAGTGCAAGAGCAGAAAGCTGTGTGGCAGCTTCTGTC	1020	1026
1021	TAGTTTTCCAAATGTGTTTCAGAATGACACATCACTAAGCAATCTATTTGATGTTCTTCG	1080	1086
1021	TAGTTTTCCAAATGTGTTTCAGAATGACACATCACTAAGCAATCTATTTGATGTTCTTCG	1080	1086

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

1081	AAAGGCAAACAGTGTGCTGCTGGTTGTGCAGAAGGTTTATCCACGTTTTGCAACTAACGA	1140	1146
1081	AAAGGCAAACAGTGTGCTGCTGGTTGTGCAGAAGGTTTATCCACGTTTTGCAACTAACGA	1140	1146
1141	AGGTTTCAGAACCCTCCAGAAGTCTGTAAACATCTGCTGTACACTCTGGACTCCCCAGC	1200	1206
1141	AGGTTTCAGAACCCTCCAGAAGTCTGTAAACATCTGCTGTACACTCTGGACTCCCCAGC	1200	1206
1201	TCAAGGTGACTCCGATAATATAACGCATGTGTGGAATGAGGATGATGGACAGACCTTATC	1260	1266
1201	TCAAGGTGACTCCGATAATATAACGCATGTGTGGAATGAGGATGATGGACAGACCTTATC	1260	1266
1261	TCCAAGCAGTCTGGCTGCACAGCTCCTAATTCTGGAAAACCTTGAAGATGCCCTCTTAAA	1320	1326
1261	TCCAAGCAGTCTGGCTGCACAGCTCCTAATTCTGGAAAACCTTGAAGATGCCCTCTTAAA	1320	1326
1321	TATATCAGCAAATAGTCTTATATTCCTTACTTGGCATGTGTGAGAAATGTGACTGACAG	1380	1386
1321	TATATCAGCAAATAGTCTTATATTCCTTACTTGGCATGTGTGAGAAATGTGACTGACAG	1380	1386
1381	TTTGGCCAGAGGTTTACCAGAAAATCTAAGACTCCTGCAGTCCACAATACGATTTAAAAA	1440	1446
1381	TTTGGCCAGAGGTTTACCAGAAAATCTAAGACTCCTGCAGTCCACAATACGATTTAAAAA	1440	1446
1441	ATCTTTTCTTCGCAATGGTTCCTATGAAGATTACTTTCTCCAGTTCCTGAAGTCCTAAA	1500	1506
1441	ATCTTTTCTTCGCAATGGTTCCTATGAAGATTACTTTCTCCAGTTCCTGAAGTCCTAAA	1500	1506
1501	ATCAAACTGTCTCAACTTCGAAACTTGACCGAACTTCTTTGTGAATCTGAACTTTTCAG	1560	1566
1501	ATCAAACTGTCTCAACTTCGAAACTTGACCGAACTTCTTTGTGAATCTGAACTTTTCAG	1560	1566
1561	TTTGATAGAGAAGTCATGCCAGCTCTCTGATATGAGCTTTGGGAGCCTGTGTGAAGAAAG	1620	1626
1561	TTTGATAGAGAAGTCATGCCAGCTCTCTGATATGAGCTTTGGGAGCCTGTGTGAAGAAAG	1620	1626

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

1621	TGAGTTTGATCTGCAACTCCTCGAAGCGGCAGAGCTGGGCACCGAAATAGCAGCCAGCTT	1680	1686
1621			
1621	TGAGTTTGATCTGCAACTCCTCGAAGCGGCAGAGCTGGGCACCGAAATAGCAGCCAGCTT	1680	1686
	o o o o o o		
1681	ACTGTACCATGACAATGTCATATCTAAAAAAGTGAGAGATTTGCTGACTGGAGATCCAAG	1740	1746
1681			
1681	ACTGTACCATGACAATGTCATATCTAAAAAAGTGAGAGATTTGCTGACTGGAGATCCAAG	1740	1746
	o o o o o o		
1741	CAAATTAATTTAAATATGGATCAGTTTCTAGAACAGGCACTGCAAATGAATTACTTGGGA	1800	1806
1741			
1741	CAAATTAATTTAAATATGGATCAGTTTCTAGAACAGGCACTGCAAATGAATTACTTGGGA	1800	1806
	o o o o o o		
1801	AAATATCACTCAGTTAATACCGATCATAGAAGCCATGCTGCATGTCAATAACAGTGCAGA	1860	1866
1801			
1801	AAATATCACTCAGTTAATACCGATCATAGAAGCCATGCTGCATGTCAATAACAGTGCAGA	1860	1866
	o o o o o o		
1861	TGCTTCTGAAAAGCCAGGTCAGTTACTAGAAATGTTTAAAAATGTTGAAGAGCTGAAAGA	1920	1926
1861			
1861	TGCTTCTGAAAAGCCAGGTCAGTTACTAGAAATGTTTAAAAATGTTGAAGAGCTGAAAGA	1920	1926
	o o o o o o		
1921	AGATTTAAGGAGAACAACAGGAATGTCCAACAGGACTATTGACAAGTTGCTGGCCATTCC	1980	1986
1921			
1921	AGATTTAAGGAGAACAACAGGAATGTCCAACAGGACTATTGACAAGTTGCTGGCCATTCC	1980	1986
	o o o o o o		
1981	CATCCCTGATAATAGAGCTGAGATTATTTCTCAGGTGTTCTGGCTGCATTCCTGTGATAC	2040	2046
1981			
1981	CATCCCTGATAATAGAGCTGAGATTATTTCTCAGGTGTTCTGGCTGCATTCCTGTGATAC	2040	2046
	o o o o o o		
2041	TAATATCACCCTCCCAAAGTAGAAGATGCAATGAAAGAATTCTGCAACCTGTCTCTTTC	2100	2106
2041			
2041	TAATATCACCCTCCCAAAGTAGAAGATGCAATGAAAGAATTCTGCAACCTGTCTCTTTC	2100	2106
	o o o o o o		
2101	AGAGAGATCCCGGCAGTCTTACCTCATCGGACTCACCTTCTGCACTACTTAAACATTTA	2160	2166
2101			
2101	AGAGAGATCCCGGCAGTCTTACCTCATCGGACTCACCTTCTGCACTACTTAAACATTTA	2160	2166
	o o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

2161	CAACTTCACAGACAAGGTGTTTTTCCCGAGGAAAGATCAAAAGCCAGTAGAAAAGATGAT	2220	2226
2161	CAACTTCACAGACAAGGTGTTTTTCCCGAGGAAAGATCAAAAGCCAGTAGAAAAGATGAT	2220	2226
2221	GGAGCTCTTCATAAGACTAAAAGAGATTCTCAATCAGATGGCTTCTGGCACACATCCGCT	2280	2286
2221	GGAGCTCTTCATAAGACTAAAAGAGATTCTCAATCAGATGGCTTCTGGCACACATCCGCT	2280	2286
2281	GCTAGACAAAATGAGATCCCTGAAGCAAATGCATCTGCCCAGAAGTGTTCCATTAACACA	2340	2346
2281	GCTAGACAAAATGAGATCCCTGAAGCAAATGCATCTGCCCAGAAGTGTTCCATTAACACA	2340	2346
2341	GGCAATGTACAGAAGCAACCGAATGAACACACCACAAGGATCATTTAGCACCATCTCCCA	2400	2406
2341	GGCAATGTACAGAAGCAACCGAATGAACACACCACAAGGATCATTTAGCACCATCTCCCA	2400	2406
2401	AGCATTATGTTCTCAAGGAATTACCACTGAATATTTAACTGCCATGCTGCCCTCTTCCCA	2460	2466
2401	AGCATTATGTTCTCAAGGAATTACCACTGAATATTTAACTGCCATGCTGCCCTCTTCCCA	2460	2466
2461	GAGGCCAAAAGGCAACCACACCAAGGATTTTTTGACTIONATAAATTAATAAGAGCAAAT	2520	2526
2461	GAGGCCAAAAGGCAACCACACCAAGGATTTTTTGACTIONATAAATTAATAAGAGCAAAT	2520	2526
2521	TGCTTCAAAATATGGAATTCCCATAAATACCACACCATTTTGCTTCTCCCTTTATAAAGA	2580	2586
2521	TGCTTCAAAATATGGAATTCCCATAAATACCACACCATTTTGCTTCTCCCTTTATAAAGA	2580	2586
2581	CATCATTAACATGCCCGCTGGACCTGTGATTTGGGCTTCTTGAAACCTATGTTGTTGGG	2640	2646
2581	CATCATTAACATGCCCGCTGGACCTGTGATTTGGGCTTCTTGAAACCTATGTTGTTGGG	2640	2646
2641	AAGAATTTTGCATGCACCATATAACCCAGTCACAAAGGCAATAATGGAAAAGTCCAATGT	2700	2706
2641	AAGAATTTTGCATGCACCATATAACCCAGTCACAAAGGCAATAATGGAAAAGTCCAATGT	2700	2706

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

2701	AACTCTGAGACAGCTGGCGGAATTAAGAGAAAAATCTCAAGAGTGGATGGATAAGTCGCC	2760	2766
2701			
2701	AACTCTGAGACAGCTGGCGGAATTAAGAGAAAAATCTCAAGAGTGGATGGATAAGTCGCC	2760	2766
	o o o o o o		
2761	ACTTTTCATGAATTCCTTCCATCTGTTAAACCAGGCAATTCCAATGCTCCAGAATACTCT	2820	2826
2761			
2761	ACTTTTCATGAATTCCTTCCATCTGTTAAACCAGGCAATTCCAATGCTCCAGAATACTCT	2820	2826
	o o o o o o		
2821	AAGGAACCCTTTTGTGCAAGTTTTTGTAAAGTTCTCCGTGGGACTCGATGCTGTTGAACT	2880	2886
2821			
2821	AAGGAACCCTTTTGTGCAAGTTTTTGTAAAGTTCTCCGTGGGACTCGATGCTGTTGAACT	2880	2886
	o o o o o o		
2881	ATTGAAACAGATAGATGAACTCGATATTCTAAGACTGAAATTAGAGAACAACATTGACAT	2940	2946
2881			
2881	ATTGAAACAGATAGATGAACTCGATATTCTAAGACTGAAATTAGAGAACAACATTGACAT	2940	2946
	o o o o o o		
2941	CATCGATCAGCTTAACACACTATCTTCCCTGACAGTAAATATTTCTCTTGTGTATTATA	3000	3006
2941			
2941	CATCGATCAGCTTAACACACTATCTTCCCTGACAGTAAATATTTCTCTTGTGTATTATA	3000	3006
	o o o o o o		
3001	TGACCGTATTCAGGCAGCAAAAACCATAGATGAAATGGAGAGAGAGGCTAAAAGGCTCTA	3060	3066
3001			
3001	TGACCGTATTCAGGCAGCAAAAACCATAGATGAAATGGAGAGAGAGGCTAAAAGGCTCTA	3060	3066
	o o o o o o		
3061	CAAAAGCAACGAACTCTTTGGAAGTGTTATTTTAAAGCTTCCTTCTAACAGAAGCTGGCA	3120	3126
3061			
3061	CAAAAGCAACGAACTCTTTGGAAGTGTTATTTTAAAGCTTCCTTCTAACAGAAGCTGGCA	3120	3126
	o o o o o o		
3121	CAGAGGCTATGACTCTGGAAATGTCTTTCTTCCTCCTGTCATAAAATATACCATCCGGAT	3180	3186
3121			
3121	CAGAGGCTATGACTCTGGAAATGTCTTTCTTCCTCCTGTCATAAAATATACCATCCGGAT	3180	3186
	o o o o o o		
3181	GAGTCTCAAGACCGCACAGACCACAAGAAGCCTAAGAACCAAGATTTGGGCTCCAGGGCC	3240	3246
3181			
3181	GAGTCTCAAGACCGCACAGACCACAAGAAGCCTAAGAACCAAGATTTGGGCTCCAGGGCC	3240	3246
	o o o o o o		

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COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

3781	CTTTCATTATTTATTGTTCTGGTTACAGTGGAGAATGAGTTGAGCTATGTATTGAAAGTGTT	3840	3846
3781	CTTTCATTATTTATTGTTCTGGTTACAGTGGAGAATGAGTTGAGCTATGTATTGAAAGTGTT	3840	3846
	o o o o o o		
3841	CATGAGCCTGCTGTCCCCAACAGCATTTCAGCTATGCAAGCCAATACATTGCACGATACGA	3900	3906
3841	CATGAGCCTGCTGTCCCCAACAGCATTTCAGCTATGCAAGCCAATACATTGCACGATACGA	3900	3906
	o o o o o o		
3901	AGAACAGGGCATTGGTCTTCAGTGGGAAAATATGTACACCTCCCCGGTTCAGGATGACAC	3960	3966
3901	AGAACAGGGCATTGGTCTTCAGTGGGAAAATATGTACACCTCCCCGGTTCAGGATGACAC	3960	3966
	o o o o o o		
3961	CACCTCATTGCTGGCTGTGCTGTCTAATCCTAGCTGACTCTTTCATTTATTTTCCTTAT	4020	4026
3961	CACCTCATTGCTGGCTGTGCTGTCTAATCCTAGCTGACTCTTTCATTTATTTTCCTTAT	4020	4026
	o o o o o o		
4021	TGCTTGGTATGTCAGGAATGTCTTCCCAGGGACATACGGTATGGCAGCTCCCTGGTATTT	4080	4086
4021	TGCTTGGTATGTCAGGAATGTCTTCCCAGGGACATACGGTATGGCAGCTCCCTGGTATTT	4080	4086
	o o o o o o		
4081	TCCAATTCTTCCTTCCTATTGGAAGGAGCGATTTGGGTGTGCAGAGGTGAAGCCTGAGAA	4140	4146
4081	TCCAATTCTTCCTTCCTATTGGAAGGAGCGATTTGGGTGTGCAGAGGTGAAGCCTGAGAA	4140	4146
	o o o o o o		
4141	GAGCAATGGCCTCATGTTTACTAACATCATGATGCAGAACACCAACCCATCTGCCAGTCC	4200	4206
4141	GAGCAATGGCCTCATGTTTACTAACATCATGATGCAGAACACCAACCCATCTGCCAGTCC	4200	4206
	o o o o o o		
4201	TGAATACATGTTTTCTCTAACATCGAGCCTGAACCTAAAGATCTCACAGTCGGGGTTGC	4260	4266
4201	TGAATACATGTTTTCTCTAACATCGAGCCTGAACCTAAAGATCTCACAGTCGGGGTTGC	4260	4266
	o o o o o o		
4261	CCTGCATGGGGTCACAAAGATCTATGGCTCAAAGTTGCTGTTGATAACCTCAATCTGAA	4320	4326
4261	CCTGCATGGGGTCACAAAGATCTATGGCTCAAAGTTGCTGTTGATAACCTCAATCTGAA	4320	4326
	o o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

4321	CTTTTATGAAGGGCATATTACTTCATTGCTGGGGCCCAATGGAGCTGGGAAAAC TACTAC	4380	4386
4321			
4321	CTTTTATGAAGGGCATATTACTTCATTGCTGGGGCCCAATGGAGCTGGGAAAAC TACTAC	4380	4386
	o o o o o o		
4381	CATTTCCATGT TAACTGGGCTGTTTGGGGCCTCAGCAGGCACCATTTTTGTATATGGAAA	4440	4446
4381			
4381	CATTTCCATGT TAACTGGGCTGTTTGGGGCCTCAGCAGGCACCATTTTTGTATATGGAAA	4440	4446
	o o o o o o		
4441	AGATATCAAAACAGACCTACACACGGTACGGAAGAACATGGGAGTCTGTATGCAGCACGA	4500	4506
4441			
4441	AGATATCAAAACAGACCTACACACGGTACGGAAGAACATGGGAGTCTGTATGCAGCACGA	4500	4506
	o o o o o o		
4501	CGTCTTGTT CAGTTACCTCACTACTAAGGAGCACCTTCTCCTATATGGTTCCATCAAAGT	4560	4566
4501			
4501	CGTCTTGTT CAGTTACCTCACTACTAAGGAGCACCTTCTCCTATATGGTTCCATCAAAGT	4560	4566
	o o o o o o		
4561	TCCTCACTGGACTAAAAAGCAGCTCCACGAGGAAGTAAAAAGGACTTTAAAAGATACTGG	4620	4626
4561			
4561	TCCTCACTGGACTAAAAAGCAGCTCCACGAGGAAGTAAAAAGGACTTTAAAAGATACTGG	4620	4626
	o o o o o o		
4621	ACTATATAGCCATCGTCATAAGAGAGTTGGAACACTGTCAGGAGGCATGAAGAGGAAGTT	4680	4686
4621			
4621	ACTATATAGCCATCGTCATAAGAGAGTTGGAACACTGTCAGGAGGCATGAAGAGGAAGTT	4680	4686
	o o o o o o		
4681	ATCTATATCCATAGCTCTCATTTGGTGGATCAAGGGTAGTAATTTTGGATGAACCATCTAC	4740	4746
4681			
4681	ATCTATATCCATAGCTCTCATTTGGTGGATCAAGGGTAGTAATTTTGGATGAACCATCTAC	4740	4746
	o o o o o o		
4741	TGGAGTTGACCCATGTTCTCGCCGAAGTATATGGGATGTTATATCCAAGAACAAAAC TGC	4800	4806
4741			
4741	TGGAGTTGACCCATGTTCTCGCCGAAGTATATGGGATGTTATATCCAAGAACAAAAC TGC	4800	4806
	o o o o o o		
4801	CAGAACAATCATTCTGTCAACGCACCACTTGGACGAGGCTGAAGTGCTGAGTGACCGCAT	4860	4866
4801			
4801	CAGAACAATCATTCTGTCAACGCACCACTTGGACGAGGCTGAAGTGCTGAGTGACCGCAT	4860	4866
	o o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

4861	CGCCTTCCTGGAGCAGGGTGGGCTTAGGTGCTGTGGGTCCCCATTTTACCTCAAGGAAGC	4920	4926
4861	CGCCTTCCTGGAGCAGGGTGGGCTTAGGTGCTGTGGGTCCCCATTTTACCTCAAGGAAGC	4920	4926
4921	CTTTGGCGATGGGTATCACCTCACGCTTACCAAGAAGAAGAGTCCAAATTTAAATGCAAA	4980	4986
4921	CTTTGGCGATGGGTATCACCTCACGCTTACCAAGAAGA-----	4958	4964
4981	TGCAGTATGTGACACCATGGCCGTGACAGCAATGATCCAATCACATCTCCCCGAAGCCTA	5040	5046
4959	-----	4958	4964
5041	CCTCAAGGAGGATATTGGGGGAGAGCTTGTTTATGTACTTCCTCCATTTCAGCACCAAAGT	5100	5106
4959	-----	4958	4964
5101	CTCAGGGGCCTACCTGTCACTCCTACGGGCACTCGACAATGGCATGGGTGACCTCAACAT	5160	5166
4959	-----	4958	4964
5161	CGGGTGCTACGGCATTTCAGATACCACCGTGAGGAGGTCTTTCTGAACTTGACCAAAGA	5220	5226
4959	-----AGGTCTTTCTGAACTTGACCAAAGA	4983	4989
5221	GTCACAAAAAATAGTGCTATGAGTCTTGAGCACTTAACACAAAAGAAAATTGGGAATTC	5280	5286
4984	GTCACAAAAAATAGTGCTATGAGTCTTGAGCACTTAACACAAAAGAAAATTGGGAATTC	5043	5049
5281	CAATGCCAATGGCATCTCAACTCCTGACGATTTATCTGTGAGCAGCAGCAATTTACAGA	5340	5346
5044	CAATGCCAATGGCATCTCAACTCCTGACGATTTATCTGTGAGCAGCAGCAATTTACAGA	5103	5109
5341	CAGAGATGACAAAATCCTGACAAGAGGAGAGAGGCTGGATGGCTTTGGACTGTTGCTGAA	5400	5406
5104	CAGAGATGACAAAATCCTGACAAGAGGAGAGAGGCTGGATGGCTTTGGACTGTTGCTGAA	5163	5169

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COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

5941	GACAAAAGACCTTCGTTTTGATATAACAGGAGTCCCTGCCAATAGAACACTTGCCAAGGT	6000	6006
5704	GACAAAAGACCTTCGTTTTGATATAACAGGAGTCCCTGCCAATAGAACACTTGCCAAGGT	5763	5769
	o o o o o		
6001	ATGGTATGATCCAGAAGGCTATCACTCCCTTCCAGCTTACCTCAACAGCCTGAATAATTT	6060	6066
5764	ATGGTATGATCCAGAAGGCTATCACTCCCTTCCAGCTTACCTCAACAGCCTGAATAATTT	5823	5829
	o o o o o		
6061	CCTTCTGCGAGTTAACATGTCAAATACGATGCTGCCCGACATGGCATCATCATGTATAG	6120	6126
5824	CCTTCTGCGAGTTAACATGTCAAATACGATGCTGCCCGACATGGCATCATCATGTATAG	5883	5889
	o o o o o		
6121	CCATCCTTATCCAGGAGTGCAAGACCAAGAACAAGCCACAATCAGCAGTTTAATCGATAT	6180	6186
5884	CCATCCTTATCCAGGAGTGCAAGACCAAGAACAAGCCACAATCAGCAGTTTAATCGATAT	5943	5949
	o o o o o		
6181	TTTAGTGGCACTGTCTATCTTGATGGGCTACTCTGTCAACACCGCCAGCTTTGTACCTA	6240	6246
5944	TTTAGTGGCACTGTCTATCTTGATGGGCTACTCTGTCAACACCGCCAGCTTTGTACCTA	6003	6009
	o o o o o		
6241	TGTTGTAAGGGAACATCAAACCAAAGCCAAACAGTTGCAGCACATTTTCAGGCATTGGCGT	6300	6306
6004	TGTTGTAAGGGAACATCAAACCAAAGCCAAACAGTTGCAGCACATTTTCAGGCATTGGCGT	6063	6069
	o o o o o		
6301	GACATGCTACTGGGTAACAACTTCATTTATGACATGGTTTTCTACTTGGTGCCTGTAGC	6360	6366
6064	GACATGCTACTGGGTAACAACTTCATTTATGACATGGTTTTCTACTTGGTGCCTGTAGC	6123	6129
	o o o o o		
6361	GTTTTCAATTGGTATCATTGCGATTTTCAAATTACCTGCATTCTACAGTGAAAACAACCT	6420	6426
6124	GTTTTCAATTGGTATCATTGCGATTTTCAAATTACCTGCATTCTACAGTGAAAACAACCT	6183	6189
	o o o o o		
6421	AGGCGCTGTATCTCTCCTACTTCTCCTGTTTGGGCATGCAACATTTTCCTGGATGTACTT	6480	6486
6184	AGGCGCTGTATCTCTCCTACTTCTCCTGTTTGGGCATGCAACATTTTCCTGGATGTACTT	6243	6249
	o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

6481	GCTGGCTGGGCTCTTCCATGAAACAGGAATGGCCTTCATCACTTACGTCTGTGTCAACTT	6540	6546
6244	GCTGGCTGGGCTCTTCCATGAAACAGGAATGGCCTTCATCACTTACGTCTGTGTCAACTT	6303	6309
	o		
6541	GTTTTTTGGCATTAATTCCATTGTTTCCCTGTCAGTGGTATACCTTTCTTTCCAAGGAAAA	6600	6606
6304	GTTTTTTGGCATTAATTCCATTGTTTCCCTGTCAGTGGTATACCTTTCTTTCCAAGGAAAA	6363	6369
	o		
6601	GCCTAATGATCCGACTTTAGAACTTATTTCTGAAACCCTCAAGCGCATTTTCCTGATTTT	6660	6666
6364	GCCTAATGATCCGACTTTAGAACTTATTTCTGAAACCCTCAAGCGCATTTTCCTGATTTT	6423	6429
	o		
6661	CCCACAATTCTGTTTTGGCTACGGTTTGATTGAACTTTCTCAACAACAGTCGGTCCTAGA	6720	6726
6424	CCCACAATTCTGTTTTGGCTACGGTTTGATTGAACTTTCTCAACAACAGTCGGTCCTAGA	6483	6489
	o		
6721	CTTCTTAAAAGCATATGGAGTGGAATACCCAAATGAAACCTTTGAGATGAATAAACTAGG	6780	6786
6484	CTTCTTAAAAGCATATGGAGTGGAATACCCAAATGAAACCTTTGAGATGAATAAACTAGG	6543	6549
	o		
6781	TGCAATGTTTGTGGCTTTGGTTTCTCAGGGCACCATGTTTTTTTCCTTGCGACTCTTAAT	6840	6846
6544	TGCAATGTTTGTGGCTTTGGTTTCTCAGGGCACCATGTTTTTTTCCTTGCGACTCTTAAT	6603	6609
	o		
6841	CAACGAATCCCTGATAAAGAACTCAGGCTTTTCTTCAGAAAATTTAATTCTTCACATGT	6900	6906
6604	CAACGAATCCCTGATAAAGAACTCAGGCTTTTCTTCAGAAAATTTAATTCTTCACATGT	6663	6669
	o		
6901	AAGGGAGACAATAGATGAGGATGAAGATGTGCGGGCTGAGAGATTAAGAGTTGAGAGTGG	6960	6966
6664	AAGGGAGACAATAGATGAGGATGAAGATGTGCGGGCTGAGAGATTAAGAGTTGAGAGTGG	6723	6729
	o		
6961	TGCAGCTGAATTTGACTTGGTCCAACCTTTATTGTCTCACAAAGACCTACCAACTTATCCA	7020	7026
6724	TGCAGCTGAATTTGACTTGGTCCAACCTTTATTGTCTCACAAAGACCTACCAACTTATCCA	6783	6789
	o		

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COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

7561	CAGCATGGAAGAATGTGAAGCTCTCTGTACCAGGTTGGCCATTATGGTGAATGGAAAGTT	7620	7626
7324	CAGCATGGAAGAATGTGAAGCTCTCTGTACCAGGTTGGCCATTATGGTGAATGGAAAGTT	7383	7389
	o o o o o		
7621	TCAATGTATTGGATCTTTGCAGCACATAAAGAGCAGGTTTGGACGAGGATTTACTGTCAA	7680	7686
7384	TCAATGTATTGGATCTTTGCAGCACATAAAGAGCAGGTTTGGACGAGGATTTACTGTCAA	7443	7449
	o o o o o		
7681	AGTTCACCTGAAGAATAACAAAGTGACCATGGAGACCCTCACAAAGTTCATGCAGCTGCA	7740	7746
7444	AGTTCACCTGAAGAATAACAAAGTGACCATGGAGACCCTCACAAAGTTCATGCAGCTGCA	7503	7509
	o o o o o		
7741	CTTTCACAAAACATACTTAAAAGATCAGCACCTCAGCATGCTAGAGTATCATGTACCAGT	7800	7806
7504	CTTTCACAAAACATACTTAAAAGATCAGCACCTCAGCATGCTAGAGTATCATGTACCAGT	7563	7569
	o o o o o		
7801	CACAGCAGGAGGAGTCGCAAACATTTTGTATCTGCTGGAAACCAACAAGACTGCTTTAAA	7860	7866
7564	CACAGCAGGAGGAGTCGCAAACATTTTGTATCTGCTGGAAACCAACAAGACTGCTTTAAA	7623	7629
	o o o o o		
7861	TATTACAAATTTCTTAGTGAGTCAGACCACTCTGGAAGAGGTTTTTCATCAACTTTGCCAA	7920	7926
7624	TATTACAAATTTCTTAGTGAGTCAGACCACTCTGGAAGAGGTTTTTCATCAACTTTGCCAA	7683	7689
	o o o o o		
7921	AGACCAGAAGTCCTATGAAACTGCTGATACCAGCAGCCAAGGTTCCACTATAAGTGTTGA	7980	7986
7684	AGACCAGAAGTCCTATGAAACTGCTGATACCAGCAGCCAAGGTTCCACTATAAGTGTTGA	7743	7749
	o o o o o		
7981	CTCACAAGATGACCAGATGGAGTCTTAACACTTCCAGCAAACCTCAATCTCAGCGTGTGAC	8040	8046
7744	CTCACAAGATGACCAGATGGAGTCTTAACACTTCCAGCAAACCTCAATCTCAGCGTGTGAC	7803	7809
	o o o o o		
8041	CAATGGCTTCATTTTGAAGAAAAGCCACAGAAGATACACTTCCGCAAGATATCTTCATTT	8100	8106
7804	CAATGGCTTCATTTTGAAGAAAAGCCACAGAAGATACACTTCCGCAAGATATCTTCATTT	7863	7869
	o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

8101	TAAAGTAAAGTAATATACTGTATGGAAAGTTACAAGTGTGTTAGACTAACAAGTAATTAT	8160	8166
7864	TAAAGTAAAGTAATATACTGTATGGAAAGTTACAAGTGTGTTAGACTAACAAGTAATTAT	7923	7929
	o o o o o		
8161	AAAAGGAAATTTTTCCTTCTAAGGTCAGTGAGTGTTGTTGCTACTGAAATGAATTCCTGT	8220	8226
7924	AAAAGGAAATTTTTCCTTCTAAGGTCAGTGAGTGTTGTTGCTACTGAAATGAATTCCTGT	7983	7989
	o o o o o		
8221	ATACTCAACACTGTGAGCATGCTAATGTATATGCTGGTGATTCTTATGCAAAGGTGAAGC	8280	8286
7984	ATACTCAACACTGTGAGCATGCTAATGTATATGCTGGTGATTCTTATGCAAAGGTGAAGC	8043	8049
	o o o o o		
8281	CACCTCAAGATGAATATCTTAATTTATTACTTTCAATAAAAAGACAGTTTAAAAGGCATG	8340	8346
8044	CACCTCAAGATGAATATCTTAATTTATTACTTTCAATAAAAAGACAGTTTAAAAGGCATG	8103	8109
	o o o o o		
8341	GATTTTGGTAGTTGAAATATAAGAGTGGAGAAGAAAAGTCAGATGGTTTGTGGCAGGTGC	8400	8406
8104	GATTTTGGTAGTTGAAATATAAGAGTGGAGAAGAAAAGTCAGATGGTTTGTGGCAGGTGC	8163	8169
	o o o o o		
8401	CACCGGGCAAGCAGACAACATAATTTATTTCCAGAAAACAACAGAATGAACATCATCATG	8460	8466
8164	CACCGGGCAAGCAGACAACATAATTTATTTCCAGAAAACAACAGAATGAACATCATCATG	8223	8229
	o o o o o		
8461	AATACATGAATCGGCTGTGATGTGTGAACTGCTAAGGGCCAAATGAACGTTTGNAGAGCA	8520	8526
8224	AATACATGAATCGGCTGTGATGTGTGAACTGCTAAGGGCCAAATGAACGTTTGNAGAGCA	8283	8289
	o o o o o		
8521	GTGGGCACAATGTTTACAATGTATGNGTATGTCACTTTCGGTACCNGTGAATGCATGGGG	8580	8586
8284	GTGGGCACAATGTTTACAATGTATGNGTATGTCACTTTCGGTACCNGTGAATGCATGGGG	8343	8349
	o o o o o		
8581	ACGTGCTGAACCCGAAAAAAAGTGCCTTTCCATAAGGACTGCAATAGAGAGGGCAATTTA	8640	8646
8344	ACGTGCTGAACCCGAAAAAAAGTGCCTTTCCATAAGGACTGCAATAGAGAGGGCAATTTA	8403	8409
	o o o o o		

COMPARISON A: SEQ ID NO. 1 (top line) vs. SEQ ID NO. 2 (bottom line) (17 pages)

8641	CCCTGGTGGTACACGGAACCTAGATTCACTCCTGCCATNCCTTGCCAATAGTAAGCTGCA	8700	8706
8404	CCCTGGTGGTACACGGAACCTAGATTCACTCCTGCCATNCCTTGCCAATAGTAAGCTGCA	8463	8469
	o o o o o		
8701	GGGTGGAACAAGAAATCACTTGCTCTGGGGGAAGGGAGGGGGAATGGGTGTGTCAGCT	8760	8766
8464	GGGTGGAACAAGAAATCACTTGCTCTGGGGGAAGGGAGGGGGAATGGGTGTGTCAGCT	8523	8529
	o o o o o		
8761	GGGTAGATACAAACCCTGAAAAGAGAATCCATGTGCTNCTGGCAGGCAACATTTTTTAAA	8820	8826
8524	GGGTAGATACAAACCCTGAAAAGAGAATCCATGTGCTNCTGGCAGGCAACATTTTTTAAA	8583	8589
	o o o o o		
8821	GCTCTTTCAGAAACCCTCATATTTGGGGTTTCTTTTCAGGAAACATTCCTGTGGAGGGAA	8880	8886
8584	GCTCTTTCAGAAACCCTCATATTTGGGGTTTCTTTTCAGGAAACATTCCTGTGGAGGGAA	8643	8649
	o o o o o		
8881	AACGAATATGAAGATAATTTTCAGCTAATTATCTGGGTGACCCAGAATCGTGATATGGC	8940	8946
8644	AACGAATATGAAGATAATTTTCAGCTAATTATCTGGGTGACCCAGAATCGTGATATGGC	8703	8709
	o o o o o		
8941	TATAGGATAGACTTCTTAATAATGGCAAGTGACGTGGCCCTGGGGAAAGGTGCTTTATGT	9000	9006
8704	TATAGGATAGACTTCTTAATAATGGCAAGTGACGTGGCCCTGGGGAAAGGTGCTTTATGT	8763	8769
	o o o o o		
9001	ACCGTGTGTGCGTGTATGTGTGTGTATCTATACAAGTTTGTGTCAGCTTTGGCATGACTGTT	9060	9066
8764	ACCGTGTGTGCGTGTATGTGTGTGTATCTATACAAGTTTGTGTCAGCTTTGGCATGACTGTT	8823	8829
	o o o o o		
9061	TGTCTCGAAAACCAATAAACTCAAAGTTTAGAAAACTCAAAAAAAAAAAAAA	9112	9118
8824	TGTCTCGAAAACCAATAAACTCAAAGTTTAGAAAACTCAAAAAAAAAAAAAA	8875	8881
	o o o o o		



COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

1	METALASERLEUPHEHISGLNLEUGLNILELEUVALTRPLYASNTRPLEUGLYVALLYS	60	66
1	METALASERLEUPHEHISGLNLEUGLNILELEUVALTRPLYASNTRPLEUGLYVALLYS	60	66
61	ARGGLNPROLEUTRPTHRLLEUVALLEUILELEUTRPPROVALILEILEPHEILEILELEU	120	126
61	ARGGLNPROLEUTRPTHRLLEUVALLEUILELEUTRPPROVALILEILEPHEILEILELEU	120	126
121	ALAILETHRARGTHRLYSPHEPROPROTHRALALYSPROTHRCYSTYRLEUALAPROARG	180	186
121	ALAILETHRARGTHRLYSPHEPROPROTHRALALYSPROTHRCYSTYRLEUALAPROARG	180	186
181	ASNLEUPROSERTHRGLYPHEPHEPROPHELEUGLNTHRLEULEUCYSASPTHRA SP SER	240	246
181	ASNLEUPROSERTHRGLYPHEPHEPROPHELEUGLNTHRLEULEUCYSASPTHRA SP SER	240	246
241	LYSCYSLYASPTHRPROTYRGLYPROGLNASPLEULEUARGARGLYSGLYILEAS PASP	300	306
241	LYSCYSLYASPTHRPROTYRGLYPROGLNASPLEULEUARGARGLYSGLYILEAS PASP	300	306
301	ALALEUPHELYSASP SERGLUILELEUARGLYSSER SERASNLEUASPLYSASP SER SER	360	366
301	ALALEUPHELYSASP SERGLUILELEUARGLYSSER SERASNLEUASPLYSASP SER SER	360	366
361	LEUSERPHEGLNSERTHRGLNVALPROGLUARGARGHISALASERLEUALATHRVALPHE	420	426
361	LEUSERPHEGLNSERTHRGLNVALPROGLUARGARGHISALASERLEUALATHRVALPHE	420	426
421	PROSERPROSER SERASPLEUGLUILEPROGLYTHR TYRTHR PHEASNGLYSERGLNVAL	480	486
421	PROSERPROSER SERASPLEUGLUILEPROGLYTHR TYRTHR PHEASNGLYSERGLNVAL	480	486
481	LEUALAARGILELEUGLYLEUGLULYSLEULEULYSGLNASNSERTHR SERGLUASPILE	540	546
481	LEUALAARGILELEUGLYLEUGLULYSLEULEULYSGLNASNSERTHR SERGLUASPILE	540	546

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

[illegible]

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

1081	PHEGLUASPALALEULEUASNILESERALAASNSEPROTYRILEPROTYRLEUALACYS	1140	1146
1081	PHEGLUASPALALEULEUASNILESERALAASNSEPROTYRILEPROTYRLEUALACYS	1140	1146
1141	VALARGASNVALTHRASPSEPRLEUALAARGGLYSERPROGLUASNLEUARGLEULEUGLN	1200	1206
1141	VALARGASNVALTHRASPSEPRLEUALAARGGLYSERPROGLUASNLEUARGLEULEUGLN	1200	1206
1201	SERTHRILEARGPHELYSLYSSEPRPHELEUARGASNGLYSEPRTYRGLUASPTYRPHEPR	1260	1266
1201	SERTHRILEARGPHELYSLYSSEPRPHELEUARGASNGLYSEPRTYRGLUASPTYRPHEPR	1260	1266
1261	PROVALPROGLUVALLEULYSSEPRLYSLEUSERGLNLEUARGASNLEUTHRGLULEULEU	1320	1326
1261	PROVALPROGLUVALLEULYSSEPRLYSLEUSERGLNLEUARGASNLEUTHRGLULEULEU	1320	1326
1321	CYSGLUSERGLUTHRPHESERLEUILEGLULYSSEPRCYSGLNLEUSERASPMETSEPRPHE	1380	1386
1321	CYSGLUSERGLUTHRPHESERLEUILEGLULYSSEPRCYSGLNLEUSERASPMETSEPRPHE	1380	1386
1381	GLYSERLEUCYSGLUGLUSERGLUPHEASPLEUGLNLEULEUGLUALAALAGLULEUGLY	1440	1446
1381	GLYSERLEUCYSGLUGLUSERGLUPHEASPLEUGLNLEULEUGLUALAALAGLULEUGLY	1440	1446
1441	THRGLUILEALAALASERLEULEUTYRHSASPASNVALILESERLYSLYSVALARGASP	1500	1506
1441	THRGLUILEALAALASERLEULEUTYRHSASPASNVALILESERLYSLYSVALARGASP	1500	1506
1501	LEULEUTHRGLYASPPROSERLYSILEASNLEUASNMETASPGNLPHELEUGLUGLNALA	1560	1566
1501	LEULEUTHRGLYASPPROSERLYSILEASNLEUASNMETASPGNLPHELEUGLUGLNALA	1560	1566
1561	LEUGLNMETASNTYRLEUGLUASNILETHRGLNLEUILEPROILEILEGLUALAMETLEU	1620	1626
1561	LEUGLNMETASNTYRLEUGLUASNILETHRGLNLEUILEPROILEILEGLUALAMETLEU	1620	1626

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

1621	HISVALASNASN SERALAAS PALASERGLULYSPROGLYGLNLEULEUGLUMETPHELYS	1680	1686
1621	HISVALASNASN SERALAAS PALASERGLULYSPROGLYGLNLEULEUGLUMETPHELYS	1680	1686
1681	ASNVALGLUGLULEULYSGLUASPLEUARGARGTHRTHRGLYMETSERASNARGTHRILE	1740	1746
1681	ASNVALGLUGLULEULYSGLUASPLEUARGARGTHRTHRGLYMETSERASNARGTHRILE	1740	1746
1741	ASPLYSLEULEUALAILEPROILEPROASPASNARGALAGLUILEILESERGLNVALPHE	1800	1806
1741	ASPLYSLEULEUALAILEPROILEPROASPASNARGALAGLUILEILESERGLNVALPHE	1800	1806
1801	TRPLEUHISSERCYSASPTHRASNIETHRTHRPROLYSLEUGLUASPALAMETLYSGLU	1860	1866
1801	TRPLEUHISSERCYSASPTHRASNIETHRTHRPROLYSLEUGLUASPALAMETLYSGLU	1860	1866
1861	PHECYSASNLEUSERLEUSERGLUARGSERARGGLNSERTYRLEUILEGLYLEUTHRLEU	1920	1926
1861	PHECYSASNLEUSERLEUSERGLUARGSERARGGLNSERTYRLEUILEGLYLEUTHRLEU	1920	1926
1921	LEUHISTYRLEUASNILETYRASNPHETHRASPYSVALPHEPHEPROARGLYSASPGLN	1980	1986
1921	LEUHISTYRLEUASNILETYRASNPHETHRASPYSVALPHEPHEPROARGLYSASPGLN	1980	1986
1981	LYSPROVALGLULYSMETMETGLULEUPHEILEARGLEULYSGLUILELEUASNGLNMET	2040	2046
1981	LYSPROVALGLULYSMETMETGLULEUPHEILEARGLEULYSGLUILELEUASNGLNMET	2040	2046
2041	ALASERGLYTHRHRISPROLEULEUASPLYSMETARGSERLEULYSGLNMETHISLEUPRO	2100	2106
2041	ALASERGLYTHRHRISPROLEULEUASPLYSMETARGSERLEULYSGLNMETHISLEUPRO	2100	2106
2101	ARGSERVALPROLEUTHRGLNALAMETTYRARGSERASNARGMETASNTHRPROGLNGLY	2160	2166
2101	ARGSERVALPROLEUTHRGLNALAMETTYRARGSERASNARGMETASNTHRPROGLNGLY	2160	2166

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

2161	SERPHERTHRILESERGLNALALEUCYSSERGLNGLYILETHRTHRGLUTYRLEUTHR	2220	2226
2161	SERPHERTHRILESERGLNALALEUCYSSERGLNGLYILETHRTHRGLUTYRLEUTHR	2220	2226
	o o o o o o		
2221	ALAMETLEUPROSERSERGLNARGPROLYSGLYASNHIHSTRHLYSASPHELEUTHRTYR	2280	2286
2221	ALAMETLEUPROSERSERGLNARGPROLYSGLYASNHIHSTRHLYSASPHELEUTHRTYR	2280	2286
	o o o o o o		
2281	LYSLEUTHRLYSGLUGLNILEALASERLYSTYRGLYILEPROILEASNTHRTHRPROPHE	2340	2346
2281	LYSLEUTHRLYSGLUGLNILEALASERLYSTYRGLYILEPROILEASNTHRTHRPROPHE	2340	2346
	o o o o o o		
2341	CYSPHERLEUTYRLYSASPILEILEASNMETPROALAGLYPROVALILETRPALAPHE	2400	2406
2341	CYSPHERLEUTYRLYSASPILEILEASNMETPROALAGLYPROVALILETRPALAPHE	2400	2406
	o o o o o o		
2401	LEULYSPROMETLEULEUGLYARGILELEUHSALAPROTYRASNPROVALTHRLYSALA	2460	2466
2401	LEULYSPROMETLEULEUGLYARGILELEUHSALAPROTYRASNPROVALTHRLYSALA	2460	2466
	o o o o o o		
2461	ILEMETGLULYSSERASNVALTHRLEUARGGLNLEUALAGLULEUARGGLULYSSERGLN	2520	2526
2461	ILEMETGLULYSSERASNVALTHRLEUARGGLNLEUALAGLULEUARGGLULYSSERGLN	2520	2526
	o o o o o o		
2521	GLUTRPMETASPLYSSERPROLEUPHEMETASNERPHEHISLEULEUASNGLNALAILE	2580	2586
2521	GLUTRPMETASPLYSSERPROLEUPHEMETASNERPHEHISLEULEUASNGLNALAILE	2580	2586
	o o o o o o		
2581	PROMETLEUGLNASNTHRLEUARGASNPROPHEVALGLNVALPHEVALLYSPPHESERVAL	2640	2646
2581	PROMETLEUGLNASNTHRLEUARGASNPROPHEVALGLNVALPHEVALLYSPPHESERVAL	2640	2646
	o o o o o o		
2641	GLYLEUASPALAVALGLULEULEULYSGLNILEASPGULEUASPILELEUARGLEULYS	2700	2706
2641	GLYLEUASPALAVALGLULEULEULYSGLNILEASPGULEUASPILELEUARGLEULYS	2700	2706
	o o o o o o		

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

2701	LEUGLUASNASNILEASPILEILEASPGNLEUASNTHRLEUSERSERLEUTHRVALASN	2760	2766
2701	LEUGLUASNASNILEASPILEILEASPGNLEUASNTHRLEUSERSERLEUTHRVALASN	2760	2766
2761	ILESERSERCYSVALLEUTYRASPARGILEGLNALAALALYSTHRILEASPGUMETGLU	2820	2826
2761	ILESERSERCYSVALLEUTYRASPARGILEGLNALAALALYSTHRILEASPGUMETGLU	2820	2826
2821	ARGGLUALALYSARGLEUTYRLYSSERASNGLULEUPHEGLYSERVALILEPHELYSLEU	2880	2886
2821	ARGGLUALALYSARGLEUTYRLYSSERASNGLULEUPHEGLYSERVALILEPHELYSLEU	2880	2886
2881	PROSERASNARGSERTRPHISARGGLYTYRASPSERGLYASNVALPHELEUPROPROVAL	2940	2946
2881	PROSERASNARGSERTRPHISARGGLYTYRASPSERGLYASNVALPHELEUPROPROVAL	2940	2946
2941	ILELYSTYRTHRILEARGMETSERLEULYSTHRALAGLNTHRTHRARGSERLEUARGTHR	3000	3006
2941	ILELYSTYRTHRILEARGMETSERLEULYSTHRALAGLNTHRTHRARGSERLEUARGTHR	3000	3006
3001	LYSILETRPALAPROGLYPROHISASNSENPROSERHISASNGLNILETYRGLYARGALA	3060	3066
3001	LYSILETRPALAPROGLYPROHISASNSENPROSERHISASNGLNILETYRGLYARGALA	3060	3066
3061	PHEILETYRLEUGLNASPSEIRILEGLUARGALAILLEILEGLULEUGLNTHRGLYARGASN	3120	3126
3061	PHEILETYRLEUGLNASPSEIRILEGLUARGALAILLEILEGLULEUGLNTHRGLYARGASN	3120	3126
3121	SERGLNGLUILEALAVAGLNVALGLNALAILEPROTYRPROCYSPEMETLYSASPASN	3180	3186
3121	SERGLNGLUILEALAVAGLNVALGLNALAILEPROTYRPROCYSPEMETLYSASPASN	3180	3186
3181	PHELEUTHRSERVALSERTYRSEIRLEUPROILEVALLEUMETVALALATRPVALVALPHE	3240	3246
3181	PHELEUTHRSERVALSERTYRSEIRLEUPROILEVALLEUMETVALALATRPVALVALPHE	3240	3246

7

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

3781	SERPHEILETYRPHELEUILEALATRPTYRVALARGASNVALPHEPROGLYTHRTRYRGLY	3840	3846
3781	SERPHEILETYRPHELEUILEALATRPTYRVALARGASNVALPHEPROGLYTHRTRYRGLY	3840	3846
3841	METALAALAPROTRPTYRPHEPROILELEUPROSEPTYRTRPLYSGLUARGPHEGLYCYS	3900	3906
3841	METALAALAPROTRPTYRPHEPROILELEUPROSEPTYRTRPLYSGLUARGPHEGLYCYS	3900	3906
3901	ALAGLUVALLYSPROGLULYSSERASNGLYLEUMETPHETHRASNILEMETMETGLNASN	3960	3966
3901	ALAGLUVALLYSPROGLULYSSERASNGLYLEUMETPHETHRASNILEMETMETGLNASN	3960	3966
3961	THRASNPROSERALASERPROGLUTYRMETPHESERSERASNILEGLUPROGLUPOLYS	4020	4026
3961	THRASNPROSERALASERPROGLUTYRMETPHESERSERASNILEGLUPROGLUPOLYS	4020	4026
4021	ASPLEUTHRVALGLYVALALALEUHSGLYVALTHRLYSILETYRGLYSERLYSVALALA	4080	4086
4021	ASPLEUTHRVALGLYVALALALEUHSGLYVALTHRLYSILETYRGLYSERLYSVALALA	4080	4086
4081	VALASPASNLEUASNLEUASNPHETRYRGLUGLYHISILETHRSEERLEULEUGLYPROASN	4140	4146
4081	VALASPASNLEUASNLEUASNPHETRYRGLUGLYHISILETHRSEERLEULEUGLYPROASN	4140	4146
4141	GLYALAGLYLYSTHRTHRTHRILESERMETLEUTHRGLYLEUPHEGLYALASERLAGLY	4200	4206
4141	GLYALAGLYLYSTHRTHRTHRILESERMETLEUTHRGLYLEUPHEGLYALASERLAGLY	4200	4206
4201	THRILEPHEVALTYRGLYLYSASPILYLYSTHRASPLEUHSITHRVALARGLYSASNMET	4260	4266
4201	THRILEPHEVALTYRGLYLYSASPILYLYSTHRASPLEUHSITHRVALARGLYSASNMET	4260	4266
4261	GLYVALCYSMETGLNHSASPVALLEUPHESERTYRLEUTHRTHRRLYSGLUHSLEULEU	4320	4326
4261	GLYVALCYSMETGLNHSASPVALLEUPHESERTYRLEUTHRTHRRLYSGLUHSLEULEU	4320	4326

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

4321	LEUTYRGLYSERILELYSVALPROHISTRPTHRLYSLSYGLNLEUHSGLUGLUVALLYS	4380	4386
4321	LEUTYRGLYSERILELYSVALPROHISTRPTHRLYSLSYGLNLEUHSGLUGLUVALLYS	4380	4386
4381	ARGTHRLEULYSASPTHRLYLEUTYRSEHISARGHISLSYARGVALGLYTHRLEUSER	4440	4446
4381	ARGTHRLEULYSASPTHRLYLEUTYRSEHISARGHISLSYARGVALGLYTHRLEUSER	4440	4446
4441	GLYGLYMETLYSARGLYSLEUSERILESERILEALALEUILEGLYGLYSERARGVALVAL	4500	4506
4441	GLYGLYMETLYSARGLYSLEUSERILESERILEALALEUILEGLYGLYSERARGVALVAL	4500	4506
4501	ILELEUASPGLUPROSERTHRGLYVALASPPROCYSSERARGARGSERILETRPASPVAL	4560	4566
4501	ILELEUASPGLUPROSERTHRGLYVALASPPROCYSSERARGARGSERILETRPASPVAL	4560	4566
4561	ILESERLYSASNLYSTHRLAARGTHRIEILELEUSERTHRHISHISLEUASPGLUALA	4620	4626
4561	ILESERLYSASNLYSTHRLAARGTHRIEILELEUSERTHRHISHISLEUASPGLUALA	4620	4626
4621	GLUVALLEUSERASPARGILEALAPHELEUGLUGLNGLYGLYLEUARGCYSCYSGLYSER	4680	4686
4621	GLUVALLEUSERASPARGILEALAPHELEUGLUGLNGLYGLYLEUARGCYSCYSGLYSER	4680	4686
4681	PROPHETRYLEULYSGLUALAPHEGLYASPGLYTYRHISLEUTHRLEUTHRLYSLSYLS	4740	4746
4681	PROPHETRYLEULYSGLUALAPHEGLYASPGLYTYRHISLEUTHRLEUTHRLYSLSYLS	4740	4746
4741	SERPROASNLEUASNALAAASNALAVALCYSASPTHMETALAVALTHRALAMETILEGLN	4800	4806
4741	-----	4740	4746
4801	SERHISLEUPROGLUALATYRLEULYSGLUASPILEGLYGLYGLULEUVALTYRVALLEU	4860	4866
4741	-----	4740	4746

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

4861	PROPROPHESE	THRLYSVALSERGLYALATYRLEUSERLEULEUARGALALEUASPASN	4920	4926
4741	-----		4740	4746
4921	GLYMETGLYASPLEUASNILEGLYCYSTYRGLYILESERASPTHRTHRVALGLUGLUVAL		4980	4986
4741	-----	VAL	4743	4749
4981	PHELEUASNLEUTHRLYSGLUSERGLNLYSASNSE	RALAMETSERLEUGLUHISLEUTHR	5040	5046
4744	PHELEUASNLEUTHRLYSGLUSERGLNLYSASNSE	RALAMETSERLEUGLUHISLEUTHR	4803	4809
	o	o	o	o
5041	GLNLYSLYSILEGLYASNSE	RASNALAASNGLYILESERTHRPROASPASPLEUSERVAL	5100	5106
4804	GLNLYSLYSILEGLYASNSE	RASNALAASNGLYILESERTHRPROASPASPLEUSERVAL	4863	4869
	o	o	o	o
5101	SERSERSERASNPHETHRASPARGASP	PLYSILELEUTHRARGGLYGLUARGLEUASP	5160	5166
4864	SERSERSERASNPHETHRASPARGASP	PLYSILELEUTHRARGGLYGLUARGLEUASP	4923	4929
	o	o	o	o
5161	GLYPHEGLYLEULEULEULYSLSILEMETALAILELEU	ILELYSARGPHEHISHISXAA	5220	5226
4924	GLYPHEGLYLEULEULEULYSLSILEMETALAILELEU	ILELYSARGPHEHISHISALA	4983	4989
	o	o	o	o
5221	ARGARGASNTRPLYSGLYLEU	ILEALAGLNVALILELEUPROILEVALPHEVALTHRTHR	5280	5286
4984	ARGARGASNTRPLYSGLYLEU	ILEALAGLNVALILELEUPROILEVALPHEVALTHRTHR	5043	5049
	o	o	o	o
5281	ALAMETGLYLEUGLYTHRLEU	ARGASNSE	RASNSERTYRPROGLUILEGLNILESER	5340
5044	ALAMETGLYLEUGLYTHRLEU	ARGASNSE	RASNSERTYRPROGLUILEGLNILESER	5103
	o	o	o	o
5341	PROSERLEUTYRGLYTHRSE	RGLUGLNTHRALAPHETYRALAASN	TYRHISPROSERTHR	5400
5104	PROSERLEUTYRGLYTHRSE	RAXAAGLNTHRALAPHETYRALAASN	TYRHISPROSERTHR	5163
	o	o	o	o

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

5401	GLUALALEUVALSERALAMETTRPASPHEPROGLYILEASPASNMETCYSLEUASNTHR	5460	5466
5164	GLUALALEUVALSERALAMETTRPASPHEPROGLYILEASPASNMETCYSLEUASNTHR	5223	5229
	o o o o o o		
5461	SERASPLEUGLNCYSLEUASNLYSASPSPERLEUGLULYSTRPASNTHRSEGLYGLUPRO	5520	5526
5224	SERASPLEUGLNCYSLEUASNLYSASPSPERLEUGLULYSTRPASNTHRSEGLYGLUPRO	5283	5289
	o o o o o o		
5521	ILETHRASNPHEGLYVALCYSSERCYSSERGLUASNVALGLNGLUCYSPROLYSPHEASN	5580	5586
5284	ILETHRASNPHEGLYVALCYSSERCYSSERGLUASNVALGLNGLUCYSPROLYSPHEASN	5343	5349
	o o o o o o		
5581	TYRSERPROPROHISARGARGTHRTYRSERSEGLNVALILETYRASNLEUTHRGlyGLN	5640	5646
5344	TYRSERPROPROHISARGARGTHRTYRSERSEGLNVALILETYRASNLEUTHRGlyGLN	5403	5409
	o o o o o o		
5641	ARGVALGLUASNTRYRLEUILESERTHRALAASNGLUPHEVALGLNLYSARGTYRGlyGLY	5700	5706
5404	ARGVALGLUASNTRYRLEUILESERTHRALAASNGLUPHEVALGLNLYSARGTYRGlyGLY	5463	5469
	o o o o o o		
5701	TRPSPERPHEGLYLEUPROLEUTHRLYSASPSPLEUARGPHEASPILETHRGlyVALPROALA	5760	5766
5464	TRPSPERPHEGLYLEUPROLEUTHRLYSASPSPLEUARGPHEASPILETHRGlyVALPROALA	5523	5529
	o o o o o o		
5761	ASNARGTHRLEUALALYSVALTRPTYRASPPROGLUGLYTYRHISSELEUPROALATYR	5820	5826
5524	ASNARGTHRLEUALALYSVALTRPTYRASPPROGLUGLYTYRHISSELEUPROALATYR	5583	5589
	o o o o o o		
5821	LEUASNSELEUASNANPHELEULEUARGVALASNMETSERLYSTYRASPALAALAARG	5880	5886
5584	LEUASNSELEUASNANPHELEULEUARGVALASNMETSERLYSTYRASPALAALAARG	5643	5649
	o o o o o o		
5881	HISGLYILEILEMETTYRSEHISPROTYRPROGLYVALGLNASPGLNGLUGLNALATHR	5940	5946
5644	HISGLYILEILEMETTYRSEHISPROTYRPROGLYVALGLNASPGLNGLUGLNALATHR	5703	5709
	o o o o o o		

COMPARISON B: SEO ID NO. 5 (top line) vs. SEO ID NO. 6 (bottom line) (15 pages)

5941	ILESERSERLEUILEASPILELEUVALALALEUSERILELEUMETGLYTYRSERVALTHR	6000	6006
5704	ILESERSERLEUILEASPILELEUVALALALEUSERILELEUMETGLYTYRSERVALTHR	5763	5769
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6001	THRALASERPHEVALTHRTRYRVALVALARGGLUHHISGLNTHRLYSALALYSGLNLEUGLN	6060	6066
5764	THRALASERPHEVALTHRTRYRVALVALARGGLUHHISGLNTHRLYSALALYSGLNLEUGLN	5823	5829
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	.		
6061	HISILESERGLYILEGLYVALTHRCYSTYRTRPVALTHRASNPHEILETYRASPMETVAL	6120	6126
5824	HISILESERGLYILEGLYVALTHRCYSTYRTRPVALTHRASNPHEILETYRASPMETVAL	5883	5889
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6121	PHETYRLEUVALPROVALALAPHESERILEGLYILEILEALAILEPHELYSLEUPROALA	6180	6186
5884	PHETYRLEUVALPROVALALAPHESERILEGLYILEILEALAILEPHELYSLEUPROALA	5943	5949
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6181	PHETYRSEERGLUASNASNLEUGLYALAVALSERLEULEULEULEULEUPHEGLYHISALA	6240	6246
5944	PHETYRSEERGLUASNASNLEUGLYALAVALSERLEULEULEULEULEUPHEGLYHISALA	6003	6009
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6241	THRPHESEERTRPMETTRYRLEULEUVALAGLYLEUPHEHHISGLUTHRGLYMETALAPHEILE	6300	6306
6004	THRPHESEERTRPMETTRYRLEULEUVALAGLYLEUPHEHHISGLUTHRGLYMETALAPHEILE	6063	6069
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6301	THRTRYRVALCYSSVALASNLEUPHEPHEGLYILEASNSEERILEVALSERLEUSEERVALVAL	6360	6366
6064	THRTRYRVALCYSSVALASNLEUPHEPHEGLYILEASNSEERILEVALSERLEUSEERVALVAL	6123	6129
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6361	TYRPHELEUSERLYSGLULYSPROASNASPPROTHRLEUGLULEUILESEERGLUTHRLEU	6420	6426
6124	TYRPHELEUSERLYSGLULYSPROASNASPPROTHRLEUGLULEUILESEERGLUTHRLEU	6183	6189
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6421	LYSARGILEPHELEUILEPHEPROGLNPHECYSPHEGLYTYRGLYLEUILEGLLULEUSER	6480	6486
6184	LYSARGILEPHELEUILEPHEPROGLNPHECYSPHEGLYTYRGLYLEUILEGLLULEUSER	6243	6249
	o o o o o		

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COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

7021	ALALEUASPASPLEUVALTHRVALGLUGLUHISLEUTYRPHETYRALAARGVALHISGLY	7080	7086
6784	ALALEUASPASPLEUVALTHRVALGLUGLUHISLEUTYRPHETYRALAARGVALHISGLY	6843	6849
7081	ILEPROGLULYSASPILELYSGLUTHRVALHISLYSLEULEUARGARGLEUHHISLEUMET	7140	7146
6844	ILEPROGLULYSASPILELYSGLUTHRVALHISLYSLEULEUARGARGLEUHHISLEUMET	6903	6909
7141	PROPELYSASPARGALATHRSEMETCYSSERTYRGLYTHRLYSARGLYSLEUSERTHR	7200	7206
6904	PROPELYSASPARGALATHRSEMETCYSSERTYRGLYTHRLYSARGLYSLEUSERTHR	6963	6969
7201	ALALEUALALEUILEGLYLYSPROSERILELEULEULEUASPGLUPROSERSEGLYMET	7260	7266
6964	ALALEUALALEUILEGLYLYSPROSERILELEULEULEUASPGLUPROSERSEGLYMET	7023	7029
7261	ASPPROLYSSERLYSARGHISLEUTRPLYSILEILESERGLUGLUVALGLNASNLYSCYS	7320	7326
7024	ASPPROLYSSERLYSARGHISLEUTRPLYSILEILESERGLUGLUVALGLNASNLYSCYS	7083	7089
7321	SERVALILELEUTHRSERHISSEMETGLUGLUCYSGLUALALEUCYSTHRARGLEUALA	7380	7386
7084	SERVALILELEUTHRSERHISSEMETGLUGLUCYSGLUALALEUCYSTHRARGLEUALA	7143	7149
7381	ILEMETVALASNGLYLYSPHEGLNCYSILEGLYSERLEUGLNHISILELYSSERARGPHE	7440	7446
7144	ILEMETVALASNGLYLYSPHEGLNCYSILEGLYSERLEUGLNHISILELYSSERARGPHE	7203	7209
7441	GLYARGGLYPHETHRVALLYSVALHISLEULYSASNASNLYSVALTHRMETGLUTHRLEU	7500	7506
7204	GLYARGGLYPHETHRVALLYSVALHISLEULYSASNASNLYSVALTHRMETGLUTHRLEU	7263	7269
7501	THRLYSPHEMETGLNLEUHHISPHEPROLYSTHRTYRLEULYSASPGLNHISLEUSERMET	7560	7566
7264	THRLYSPHEMETGLNLEUHHISPHEPROLYSTHRTYRLEULYSASPGLNHISLEUSERMET	7323	7329

COMPARISON B: SEQ ID NO. 5 (top line) vs. SEQ ID NO. 6 (bottom line) (15 pages)

7561	LEUGLUTYRHISVALPROVALTHRAGLYGLYVALALAASNILEPHEASPLEULEUGLU	7620	7626
7324	LEUGLUTYRHISVALPROVALTHRAGLYGLYVALALAASNILEPHEASPLEULEUGLU	7383	7389
	o o o o o o o		
7621	THRASNLYSTHRALALEUASNILETHRASNPEHEUVALSERGLNTHRTHRLEUGLUGLU	7680	7686
7384	THRASNLYSTHRALALEUASNILETHRASNPEHEUVALSERGLNTHRTHRLEUGLUGLU	7443	7449
	o o o o o o o		
7681	VALPHEILEASNPEALALYSASPGLNLYSSERTYRGLUTHRALAASPTHRSESRERGLN	7740	7746
7444	VALPHEILEASNPEALALYSASPGLNLYSSERTYRGLUTHRALAASPTHRSESRERGLN	7503	7509
	o o o o o o o		
7741	GLYSERTHRILESERVALASPSEGLNASPASPGLNMETGLUSER	7785	7791
7504	GLYSERTHRILESERVALASPSEGLNASPASPGLNMETGLUSER	7548	7554
	o o o o o o o		